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Jun 4, 1998

DERWENT-ACC-NO: 1998-287979

DERWENT-WEEK: 199847

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TITLE: Miniature encapsulation device for sensitive materials - has membrane-sealed cavities and electric heating system for membrane destruction

INVENTOR: ENDRES, H; ROTH, M

PATENT-ASSIGNEE:

ASSIGNEE

CODE

FRAUNHOFER GES FOERDERUNG ANGEWANDTEN

FRAU

PRIORITY-DATA: 1997DE-1016683 (April 21, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 19716683 C1	June 4, 1998		004	B01L003/00
EP 873789 A2	October 28, 1998	G	000	B01L003/00

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 19716683C1	April 21, 1997	1997DE-1016683	
EP 873789A2	April 20, 1998	1998EP-0107137	

INT-CL (IPC): A01 G 9/10; B01 L 3/00; B65 D 81/32; G01 N 31/22; G01 N 33/00; H01 L 49/00

ABSTRACTED-PUB-NO: DE 19716683C

BASIC-ABSTRACT:

In an apparatus (10) for separate encapsulation of several identical or different materials in closed cavities (8, 10) in a micro-mechanically produced structure, at least two of the cavities (8, 10) are separated by a membrane (5) which is formed by microsystem or thin film technology and which can be destroyed by an electric heater (7) of the apparatus in order to connect the cavities.

USE - E.g. for encapsulating sensitive materials, such as chemical indicator materials, catalysts and medicaments.

ADVANTAGE - The apparatus is miniaturised, can be mass produced and permits simple, contamination-free, rapid, event or time controlled, automatic mixing of two or more materials by explosive disintegration of a separating membrane.

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: MINIATURE ENCAPSULATE DEVICE SENSITIVE MATERIAL MEMBRANE SEAL CAVITY

ELECTRIC HEAT SYSTEM MEMBRANE DESTROY

DERWENT-CLASS: B07 J04 L03 P13 Q34 S03 U12

CPI-CODES: B11-C05; B12-M11C; J04-A06; J04-B01; J04-E; L04-E;

EPI-CODES: S03-E09E; S03-E14; U12-B;

CHEMICAL-CODES:

Chemical Indexing M2 \*01\*

Fragmentation Code

B114 B720 B740 B831 C106 C800 C802 C803 C805 C806

C807 M411 M424 M740 M781 M903 M904 M910 N105 Q431

Q454 R031

Specific Compounds

01247U

Registry Numbers

1247U

Chemical Indexing M2 \*02\*

Fragmentation Code

B114 B720 B730 B732 B833 C107 C800 C802 C803 C804

C806 C807 M411 M424 M740 M781 M903 M904 N105 Q431

Q454 R031

Specific Compounds

03124U

Chemical Indexing M6 \*03\*

Fragmentation Code

M903 Q435 Q454 R031 R511 R526 R534 R770

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1247U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1998-089286

Non-CPI Secondary Accession Numbers: N1998-226414